

WHAT IS CLAIMED IS:

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A1  
1. ~~A liquid crystal display having liquid crystal sandwiched by~~  
a pair of substrates having electrodes for driving the liquid  
5 crystal based on a liquid crystal control driving signal for R  
light, a liquid crystal control driving signal for G light, and a  
liquid crystal control driving signal for B light to control  
transmittance of R light components, G light components, and B  
light components for color display,

10 a driving voltage for application to the liquid crystal  
being set independently for R display, G display, and B display.

2. A liquid crystal display according to claim 1, wherein  
an upper limit value of a range for the driving voltage is  
15 set independently for R light, G light, and B light.

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A2  
3. ~~A liquid crystal display according to claim 1, wherein~~  
the liquid crystal control driving signal for R light, the  
liquid crystal control driving signal for G light, and the liquid  
20 crystal control driving signal for B light are separately  
subjected gamma correction based on transmittance characteristics  
of the R light components, the G light components, and the b  
light components.

25 4. A liquid crystal display according to claim 1, wherein  
the pair of substrates includes a first substrate,  
electrodes for driving the liquid crystal formed on the

first substrate include a plurality of pixel electrodes arranged in matrix thereon; and

the plurality of pixel electrodes are connected to corresponding poly-Si thin film transistors each using a poly-Si layer formed at a low temperature for an active layer.

Sub a3  
5. ~~An electrically controlled birefringence type liquid crystal display having liquid crystal sandwiched by a pair of substrates having electrodes for driving the liquid crystal based on a liquid crystal control driving signal for R light, a liquid crystal control driving signal for G light, and a liquid crystal control driving signal for B light to control transmittance of R light components, G light components, and B light components for color display,~~

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15 ~~a driving voltage for application to the liquid crystal being set independently for R display, G display, and B display.~~

6. A liquid crystal display according to claim 5, wherein an upper limit value of a range for the driving voltage is set independently for R light, G light, and B light.

Sub a4  
25 7. ~~A liquid crystal display according to claim 5, wherein the liquid crystal control driving signal for R light, the liquid crystal control driving signal for G light, and the liquid crystal control driving signal for B light are separately subjected gamma correction based on transmittance characteristics of the R light components, the G light components, and the B~~

~~light components.~~

8. A liquid crystal display according to claim 5, wherein the pair of substrates includes a first substrate,

5 electrodes for driving the liquid crystal formed on the first substrate include a plurality of pixel electrodes arranged in matrix thereon; and

the plurality of pixel electrodes are connected to corresponding poly-Si thin film transistors each using a poly-Si layer formed at a low temperature for an active layer.

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